UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

<u> </u>		I, OR PLUG BACK 200 JUN 11
۱.	Type of Work	5. Lease Number
	DRILL	SF-079522 070 F
	Type of Well	2 89100009490
b.	Type of Well	6. If Indian, All. or Tribe
J.	GAS OIL CEIVED CO	
	SA DON TO E	
	Operator S	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company	
	RESOURCES Oil & Gas Company	San Juan 28-5 Unit
	Address & Phone No. of Operator	8. Farm or Lease Name
1	PO Box 4289, Farmington, NM 87499	San Juan 28-5 Unit
	PO BOX 4209, Faintington, NM 07499	9. Well Number
	(505) 326-9700	24B
	(303) 320 3700	245
	Location of Well	10. Field, Pool, Wildcat
,	2270' FNL, 2530' FEL	Blanco Mesaverde
	,	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 37.1, Longitude 107° 20.8	G Sec. 34, T-28-N, R-5-W
	•	API# 30-039- Z6308
4.	Distance in Miles from Nearest Town	12. County 13. State
₹.	6 miles from Gobernador	Rio Arriba NM
	O MIICO IIOM GODOIMAGI	
5.	Distance from Proposed Location to Nearest Property or Lease Li	ne
	2270 '	
6.	Acres in Lease	17. Acres Assigned to Well
		320 N/2
8.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or	r Applied for on this Lease
0.	1700' This action is subject to technical and	
19.	Proposed Depth procedural review pursuant to 48 OFR 3165.3	20. Rotary or Cable Tools
	6137' and appeal pursuant to 43 CFR 3185.4.	Rotary
	Paradally to 40 OFF 3189.4	
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6709' GR	
23.	Proposed Casing and Cementing Program	DRILLING OPERATIONS AUTHOPIZED ARE
2 3.	See Operations Plan attached	SUBJECT TO COMPLIANCE WITH ATTACHED
	See Operations train accaoned	
	\supset A	"GENERAL REQUIREMENTS"
		14 2 22
24.	Authorized by: Wilder Cale	12-7-49
_ 7.	Regulatory Compliance Administrato	r Date
	rogatatori, compriante naminibilato	
DED	MIT NO APPROVAL D	ΔTF
	Int Ohadla David	
A DDE	ROVED BY /8/ Charle Beecham TITLE	DATE <u>MAR 3 </u> 200

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

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District II PO Drawer DD, Artesia, District III 1000 Rio Brazos Rd., A District IV	ztec. NM 87410	APROBLE COL	SERVATION OF OUR OF THE PROPERTY OF THE PROPER	37504- <u>20</u> 8 8	Submit t	Appropri	d February 21, 1994 hstructions on back ate District Office e Lease – 4 Copies e Lease – 3 Copies MENDED REPORT
PO Box 2088, Santa Fe	NM 87504 2088	LL LOCATION	AND ACF	REAGE DEDI	CATION F		
30-039-	308	'Pool Code 72319	В1	anco Mesa			
Property Code		SAN	Property N				"Well Number 24B
7460 14538	Bl	URLINGTON RE	*Operator N	Na me	COMPAN	1	'Elevation 6709 '
	Tour him I		Surface L	ocation	Feet from the	East/Wes	t line County
G 34	1 1	SW Lot ldn F	2270	NORTH	2530	EAS	חזם ו
	11 Bot		cation If	Different	From St		st line County
UL or lot no. Section	10MNSN3D F	sange Cot ton	reet from the	10 11/30001 124			
12 Decicated ACPES	13 Joint or Infill	³⁴ Consolidation Code	5 Order No.				
N/320	LITE OF ACC	TOURD TO THIS	COMPLETIO	N UNITE ALL	INTEREST	S HAVE BE	EN CONSOLIDATE
* 6	APR 2000	,02.Z2		*	I hereb	y certify that the	e information contained herein best of my knowledge and bel
2640.00	2MM8F1-0	34	*	2530'	Pe Prir Re Tit:	/2 - e URVEYOR	y Administra

OPERATIONS PLAN

Well Name:

San Juan 28-5 Unit #24B

Surface Location:

2270' FNL, 2530' FEL, Section 34, T-28-N, R-5-W

Rio Arriba County, New Mexico

Latitude 36° 37.1, Longitude 107° 20.8

Formation: Blanco Mesa Verde

Elevation:

6709' GL

Formation Tops:	<u>Top</u>	Bottom	<u>Contents</u>
Surface	San Jose	2887 ′	aquifer
Ojo Alamo	2887 '	3079 '	aquifer
Kirtland	3079 ′	3179 '	gas
Fruitland	3179 ′	3562 '	gas
Pictured Cliffs	3562 '	3651'	gas
Lewis	3651 ′	4183'	gas
Intermediate TD	37 51 ′		
Mesa Verde	4183'	4514'	gas
Chacra	4514'	5241'	gas
Massive Cliff House	5241 ′	5404 '	. gas
Menef ee	5404'	5737 '	gas
Point Lookout	5737 '		gas
Total Depth	6137′		

Logging Program:

Cased hole Gamma Ray, Cement bond - surface to TD Mud Logs/Coring/DST - none

Mud Program:

Interval- MD	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3751 '	LSND	8.4-9.0	30-60	no control
3751- 6137 '	Air/Mist	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

	Measured			
Hole Size	e Depth	Csg Size	Weight	<u>Grade</u>
12 1/4"		9 5/8"	32.3#	H-40
8 3/4"	0' - 3751'	7"	20.0#	J-55
6 1/4"	3651' - 6137'	4 1/2"	10.5#	J-55

Tubing Program: 0'-6137' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -

- · Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- · An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- · BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/344 sx Class "B" w/3% sodium metasilicate, gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 7# gilsonite/sx and 0.5# flocele/sx (1128 cu.ft. of slurry, 100% excess to circulate to WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

Stage collar at 7" intermediate casing alternative two stage: 3079'. First stage: cement with 150 sx Class "B" 50/50 poz w/2% gel, 7 pps Gilsonite, 1% calcium chloride, 0.5 pps Cellophane. Second stage: 316 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 7 pps Gilsonite (1128 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 3079'. turbolating centralizers at the base of the Ojo Alamo at 3079'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to circulate liner top. Pump 281 sx 50/50 Class "B" Poz w/1/4# flocele/sx, 2% gel, 0.1% retardant, 5# gilsonite/sx and 0.4% fluid loss additive (357 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

• If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- · The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

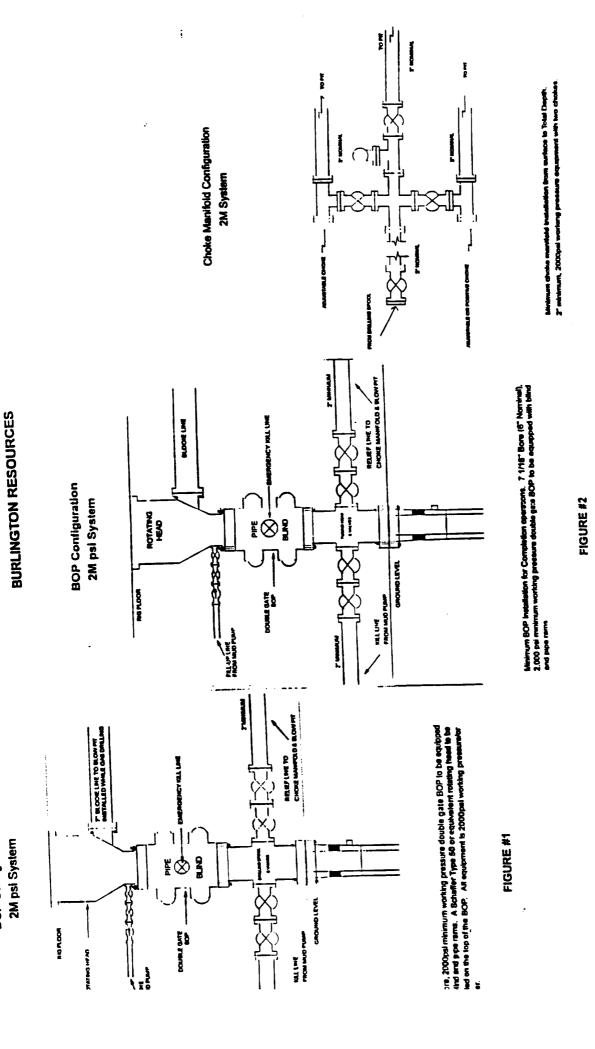
Additional Information:

- The Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi 600 psi Pictured Cliffs 700 psi Mesa Verde

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The north half of Section 34 is dedicated to the Mesa Verde.
- This gas is dedicated.

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BOP Configuration

2M psi System

